

Section II
Soil and Site Information

Building Site Development
Brule and Buffalo Counties,
South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ar: Artesian-----	80	Very limited Low strength Shrink-swell Flooding Depth to saturated zone	1.00 1.00 0.40 0.03	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.72 0.10	Somewhat limited Depth to saturated zone	0.03
BeB: Beadle-----	80	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
BeC: Beadle-----	75	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
BgB: Beadle-----	50	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
Jerauld-----	25	Very limited Low strength Shrink-swell	1.00 1.00	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Sodium content	1.00
BmF: Betts-----	45	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Java-----	30	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Bn: Bon-----	80	Somewhat limited Frost action Flooding	0.50 0.40	Very limited Cutbanks cave	1.00	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bo: Bon-----	80	Very limited Frost action Flooding Low strength	1.00 1.00 0.22	Somewhat limited Depth to saturated zone Flooding Cutbanks cave	0.61 0.60 0.10	Somewhat limited Flooding	0.60
Bu: Bullcreek-----	82	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey Sodium content	1.00 1.00
Ca: Carter-----	75	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 0.10	Not limited	
Cp: Carter-----	60	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 0.10	Not limited	
Promise-----	30	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey	1.00
Cr: Cavo-----	60	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Very limited Sodium content	1.00
Jerauld-----	20	Very limited Low strength Shrink-swell	1.00 1.00	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Sodium content	1.00
CsD: Chantier-----	60	Very limited Shrink-swell Depth to soft bedrock Low strength Slope	1.00 1.00 1.00 0.04	Very limited Depth to soft bedrock Too clayey Cutbanks cave Slope	1.00 1.00 0.10 0.04	Very limited Too clayey Depth to bedrock Droughty Slope	1.00 1.00 1.00 0.04

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Sansarc-----	20	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Depth to soft bedrock	1.00	Too clayey	1.00	Depth to bedrock	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
		Slope	0.04	Slope	0.04	Slope	0.04
DaA: Degrey-----	35	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Very limited Sodium content	1.00
		Shrink-swell	1.00	Too clayey	0.12		
				Cutbanks cave	0.10		
Eakin-----	25	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Jerauld-----	15	Very limited Low strength	1.00	Very limited Depth to saturated zone	1.00	Very limited Sodium content	1.00
		Shrink-swell	1.00	Too clayey	0.28		
				Cutbanks cave	0.10		
DeD: Delmont-----	80	Somewhat limited Slope	0.37	Very limited Cutbanks cave	1.00	Somewhat limited Slope	0.37
				Slope	0.37	Droughty	0.03
Do: Dorna-----	80	Very limited Low strength	1.00	Somewhat limited Too clayey	0.28	Not limited	
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Du: Durrstein-----	80	Very limited Flooding	1.00	Very limited Depth to saturated zone	1.00	Very limited Sodium content	1.00
		Shrink-swell	1.00	Flooding	0.60	Depth to saturated zone	1.00
		Low strength	1.00	Too clayey	0.28	Salinity	1.00
		Depth to saturated zone	1.00	Cutbanks cave	0.10	Flooding	0.60
		Frost action	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EaA: Eakin-----	45	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Degrey-----	30	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Depth to saturated zone Too clayey Cutbanks cave	0.47 0.12 0.10	Very limited Sodium content	1.00
Eg: Egas-----	80	Very limited Frost action Flooding Low strength Shrink-swell Depth to saturated zone	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Cutbanks cave Too clayey	1.00 0.60 0.10 0.03	Very limited Salinity Depth to saturated zone Flooding	1.00 1.00 0.60
Ew: Egas Variant-----	85	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Cutbanks cave Too clayey	1.00 0.80 0.10 0.03	Very limited Flooding Depth to saturated zone	1.00 1.00
Fa: Farmsworth-----	75	Very limited Low strength Shrink-swell Frost action Flooding Depth to saturated zone	1.00 1.00 0.50 0.40 0.03	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Sodium content Depth to saturated zone	1.00 0.03

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
GeE: Gettys-----	75	Very limited Shrink-swell Low strength Slope	1.00 1.00 1.00	Very limited Slope Cutbanks cave Too clayey	1.00 0.10 0.03	Very limited Slope	1.00
GeF: Gettys-----	75	Very limited Slope Shrink-swell Low strength	1.00 1.00 1.00	Very limited Slope Cutbanks cave Too clayey	1.00 0.10 0.03	Very limited Slope	1.00
GhA: Glenham-----	75	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
GkB: Glenham-----	55	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Java-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
HgB: Highmore-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Java-----	25	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
HgC: Highmore-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Java-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
HmA: Highmore-----	50	Very limited Low strength Frost action	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Mobridge-----	25	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
HoB: Hurley-----	75	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Depth to soft bedrock Cutbanks cave	1.00 0.42 0.10	Very limited Sodium content Droughty Depth to bedrock	1.00 0.54 0.42
HsA: Hurley-----	60	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Depth to soft bedrock Cutbanks cave	1.00 0.42 0.10	Very limited Sodium content Droughty Depth to bedrock	1.00 0.54 0.42
Slickspots, Dry----	20	Not rated		Not rated		Not rated	
JbE: Java-----	50	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Betts-----	30	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
JgC: Java-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Glenham-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Ko: Kolls-----	95	Very limited Shrink-swell Low strength Depth to saturated zone Ponding Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Too clayey Cutbanks cave Ponding	1.00 1.00 1.00 1.00	Very limited Too clayey Depth to saturated zone Ponding	1.00 1.00 1.00
La: Lane-----	75	Very limited Shrink-swell Low strength Flooding	1.00 1.00 0.40	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.47 0.10 0.03	Not limited	
Lf: Lane-----	45	Very limited Shrink-swell Low strength Flooding	1.00 1.00 0.40	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.47 0.10 0.03	Not limited	
Farmsworth-----	30	Very limited Low strength Shrink-swell Frost action Flooding Depth to saturated zone	1.00 1.00 0.50 0.40 0.03	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Sodium content Depth to saturated zone	1.00 0.03

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LoA: Lowry-----	90	Somewhat limited Low strength Frost action	0.78 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
LoB: Lowry-----	90	Somewhat limited Low strength Frost action	0.78 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
LvA: Lowry Variant-----	100	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
LvB: Lowry Variant-----	100	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
MaB: Mcclure-----	75	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Not limited	
MaC: Mcclure-----	80	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Not limited	
MbA: Millboro-----	99	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Not limited	
MbB: Millboro-----	100	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Not limited	
MbC: Millboro-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MoA: Mobridge-----	75	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
Mp: Mobridge-----	60	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
Plankinton-----	25	Very limited Depth to saturated zone Shrink-swell Low strength Ponding Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Ponding Too clayey Cutbanks cave	1.00 1.00 0.41 0.10	Very limited Depth to saturated zone Ponding	1.00 1.00
Oa: Oahe-----	80	Not limited		Very limited Cutbanks cave	1.00	Not limited	
OdB: Oahe-----	45	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Delmont-----	35	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.03
OeF: Okaton-----	75	Very limited Shrink-swell Slope Depth to soft bedrock Low strength Content of large stones	1.00 1.00 1.00 1.00 0.56	Very limited Depth to soft bedrock Slope Too clayey Content of large stones Cutbanks cave	1.00 1.00 0.72 0.56 0.10	Very limited Too clayey Depth to bedrock Slope Content of large stones Droughty	1.00 1.00 1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
OkB: Oko-----	75	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.50 0.10	Somewhat limited Content of large stones	0.01
OmB: Opal-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.17
OmC: Opal-----	75	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.04	Very limited Cutbanks cave Too clayey Depth to soft bedrock Slope	1.00 0.88 0.42 0.04	Very limited Too clayey Depth to bedrock Droughty Slope	1.00 0.42 0.17 0.04
OpB: Opal-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave Depth to soft bedrock	1.00 1.00 0.42	Very limited Too clayey Depth to bedrock Droughty	1.00 0.42 0.27
Or: Orthents, Loamy-----	75	Very limited Slope Low strength Shrink-swell Frost action	1.00 0.78 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
OtA: Orton-----	80	Not limited		Very limited Cutbanks cave	1.00	Not limited	
OtB: Orton-----	80	Not limited		Very limited Cutbanks cave	1.00	Not limited	
OwE: Orton-----	45	Very limited Slope	1.00	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Schamber-----	35	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Droughty	1.00 0.93
Pa: Plankinton-----	90	Very limited Depth to saturated zone Shrink-swell Low strength Ponding Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Ponding Too clayey Cutbanks cave	1.00 1.00 0.41 0.10	Very limited Depth to saturated zone Ponding	1.00 1.00
PrA: Promise-----	75	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey	1.00
PrB: Promise-----	85	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey	1.00
ReA: Ree-----	75	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
ReB: Ree-----	75	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
RsF: Rock Outcrop, Soft--	45	Not rated		Not rated		Not rated	
Sansarc-----	40	Very limited Shrink-swell Slope Depth to soft bedrock Low strength	1.00 1.00 1.00 1.00	Very limited Depth to soft bedrock Slope Too clayey Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Too clayey Depth to bedrock Slope Droughty	1.00 1.00 1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SaE: Sansarc-----	45	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Depth to soft bedrock	1.00	Too clayey	1.00	Depth to bedrock	1.00
		Low strength	1.00	Slope	1.00	Droughty	1.00
		Slope	1.00	Cutbanks cave	0.10	Slope	1.00
Opal-----	30	Very limited Shrink-swell	1.00	Very limited Cutbanks cave	1.00	Very limited Too clayey	1.00
		Low strength	1.00	Slope	1.00	Slope	1.00
		Slope	1.00	Too clayey	0.88	Depth to bedrock	0.42
				Depth to soft bedrock	0.42	Droughty	0.17
SaF: Sansarc-----	55	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
Opal-----	20	Very limited Shrink-swell	1.00	Very limited Slope	1.00	Very limited Too clayey	1.00
		Slope	1.00	Cutbanks cave	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88	Depth to bedrock	0.42
				Depth to soft bedrock	0.42	Droughty	0.17
ScE: Schamber-----	75	Very limited Slope	1.00	Very limited Cutbanks cave	1.00	Very limited Slope	1.00
				Slope	1.00	Droughty	0.93
SdF: Sully-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	0.78	Cutbanks cave	0.10		
		Frost action	0.50				
SoC: Sully-----	60	Somewhat limited Low strength	0.78	Somewhat limited Cutbanks cave	0.10	Not limited	
		Frost action	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lowry-----	30	Somewhat limited Low strength Frost action	0.78 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
SoE: Sully-----	55	Very limited Slope Low strength Frost action	1.00 0.78 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Lowry-----	25	Somewhat limited Low strength Slope Frost action	0.78 0.63 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
SsE: Sully-----	60	Very limited Slope Low strength Frost action	1.00 0.78 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Schamber-----	20	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Droughty	1.00 0.93
UaA: Uly-----	85	Very limited Low strength Frost action	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
UaB: Uly-----	85	Very limited Low strength Frost action	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
UaC: Uly-----	85	Very limited Low strength Frost action	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Us: Orthents, Loamy-----	80	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Orthents, Shaly-----	20	Not rated		Not rated		Not rated	
W: Water-----	100	Not rated		Not rated		Not rated	
Wd: Wendte-----	80	Very limited Shrink-swell Low strength Flooding	1.00 1.00 0.40	Somewhat limited Too clayey Depth to saturated zone Cutbanks cave	0.50 0.47 0.10	Very limited Too clayey	1.00
We: Wendte-----	75	Very limited Shrink-swell Flooding Low strength	1.00 1.00 1.00	Somewhat limited Flooding Too clayey Depth to saturated zone Cutbanks cave	0.60 0.50 0.47 0.10	Very limited Too clayey Flooding	1.00 0.60
Wo: Worthing-----	99	Very limited Shrink-swell Ponding Depth to saturated zone Frost action Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00
Wp: Worthing-----	100	Very limited Shrink-swell Ponding Depth to saturated zone Frost action Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00